TASK 6: Sales Trend Analysis Using Aggregations

1.Use EXTRACT(MONTH FROM order_date) for month.

SELECT

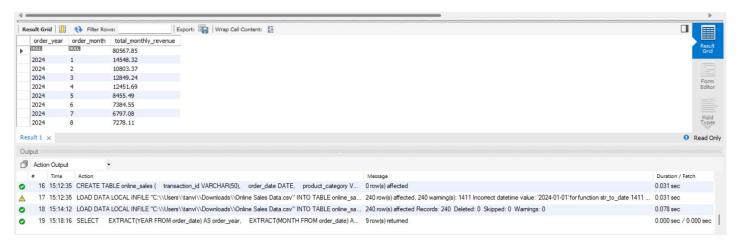
EXTRACT(YEAR FROM order_date) AS order_year,

EXTRACT(MONTH FROM order_date) AS order_month,

SUM(total_revenue) AS total_monthly_revenue

FROM online_sales

GROUP BY order_year, order_month;



2. GROUP BY year/month.

SELECT

EXTRACT(YEAR FROM order_date) AS order_year,

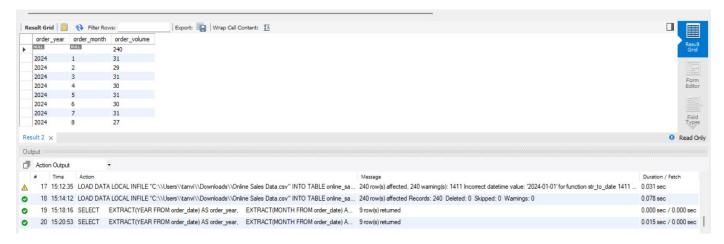
EXTRACT(MONTH FROM order_date) AS order_month,

COUNT(DISTINCT transaction_id) AS order_volume

FROM online_sales

GROUP BY order_year, order_month

ORDER BY order_year, order_month;



3. Use SUM() for revenue.

SELECT

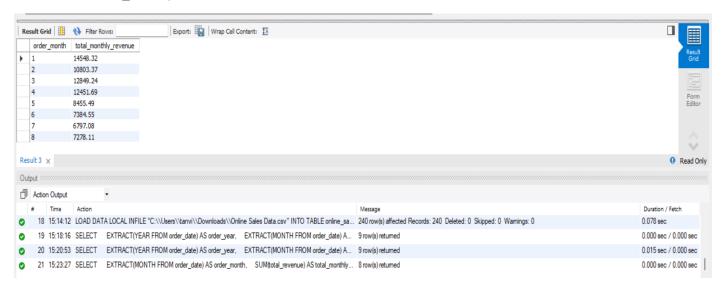
EXTRACT(MONTH FROM order_date) AS order_month,

SUM(total_revenue) AS total_monthly_revenue

FROM online_sales

GROUP BY order_month

ORDER BY order_month;



4. COUNT(DISTINCT order_id) for volume.

SELECT

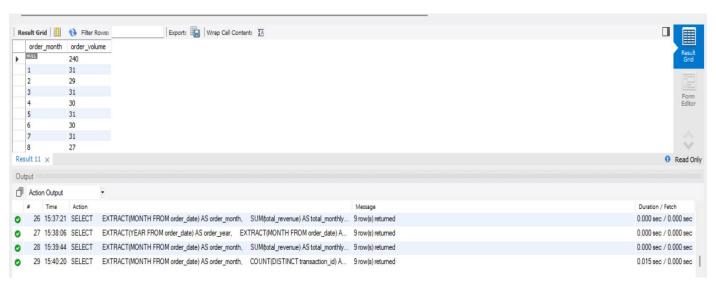
EXTRACT(MONTH FROM order_date) AS order_month,

COUNT(DISTINCT transaction_id) AS order_volume

FROM online_sales

GROUP BY order month

ORDER BY order_month;



5. Use ORDER BY for sorting.

SELECT

EXTRACT(YEAR FROM order_date) AS order_year,

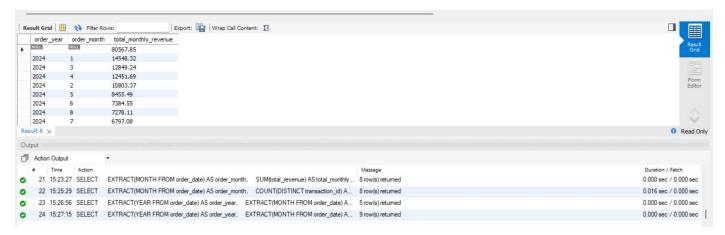
EXTRACT(MONTH FROM order_date) AS order_month,

SUM(total_revenue) AS total_monthly_revenue

FROM online_sales

GROUP BY order_year, order_month

ORDER BY total_monthly_revenue DESC;



6. Limit results for specific time periods.

SELECT

EXTRACT(YEAR FROM order_date) AS order_year,

EXTRACT(MONTH FROM order_date) AS order_month,

SUM(total_revenue) AS total_monthly_revenue,

COUNT(DISTINCT transaction_id) AS order_volume

FROM online sales

WHERE order_date BETWEEN '2024-03-01' AND '2024-06-30'

GROUP BY order_year, order_month

ORDER BY order year, order month;

